MHBS - *(Expanded range; new lugs)*

Metallized polypropylene film capacitor
MKP - Switching - High current - DC-Link - AC
2/4/6 x Wire or lug terminals - Small size

Main applications
DC-Link, switching capacitor for industrial and motor speed controls, SMPS, solar inverters, power converters and UPS, AC output filtering, suitable for AC (not for across the line) applications

Main characteristics
High voltage and high capacitance in small size with long life expectancy, high current and high frequency operation capability

Dielectric
Polypropylene

Electrodes
Vacuum deposited metal layers

Coating
Solvent resistant plastic case with resin sealing (UL 94 V-0). Flame retardant execution

Construction
Extended metallized film (refer to general technical information)

Terminals
Tinned copper wire (lead-free). 2, 4 or 6x terminals or tinned copper (brass) lug terminals (lead-free) execution (please refer to article table)

Degree of protection
IP00

Installation
Whatever position **assuring correct heat dissipation**. Arrangement of many components with box walls in contact not admitted; suggested minimum distance between side by side elements ≥ 1/8 of the box thickness (B size). Box with lugs terminals must be free to correctly dissipate from all the body faces

Reference standard
IEC 61071, IEC 60068, RoHS compliant

Climatic category
40/85/56 (IEC 60068/1), GPD (DIN40040)

Operating temperature range (case)
-40°...+85°C (+100°C observing voltage and current de-rating)

Max. permissible ambient temperature (operation at rated power, rated current and natural cooling)
+70°C (+85°C observing voltage and current de-rating); at Tamb. >+95°C superimposed Irms not admitted (Irms= 0 at Tamb.>+95°C)

Rated capacitance (Cr)
0,68µF to 100µF. Refer to article table

Capacitance tolerance (at 1kHz)
±10% (code=K), ±5% (code=J). Other tolerances upon request

Capacitance temperature coefficient
Refer to graphs in general technical information

Long term stability (at 1 kHz)
Capacitance variation ≤ ±1% after a period of 2 years at standard environmental conditions

Rated voltage (Ur) at T=+85°C, case (continuous operation)
575, 700, 800, 900, 1000, 1100, 1275Vdc

Temperature de-rated voltage and current
For operating temperature (**case**)> +85°C, Ur, Urms, Upkr and Upk must be decreased 1.5% for every °C exceeding +85°C.
For current de-rating please also refer to the ΔT/Tamb. data in function of the applied Irms listed in the article table

Permissibile AC voltage (Urms) at T=+85°C, case (continuous operation)
240, 285, 315, 350, 400, 420, 440 Vac

Max. admissible voltage at T+70°C, case (continuous operation)
Please refer to the article table

Max. ripetitive peak voltage (Upkr), total 1hour max/day:
Up to case T=+85°C max.
660, 805, 920, 1035, 1150, 1265, 1465 Vdc
Up to case T=+70°C max.
720, 885, 1010, 1150, 1265, 1380, 1610 Vdc

Non Recurrent Surge Voltage (Upk):
Up to case T=+85°C max.
750, 910, 1040, 1170, 1300, 1430, 1655 Vdc
Up to case T=+70°C max.
815, 1000, 1140, 1300, 1430, 1560, 1820 Vdc

Self inductance
≤ 1nH/mm of fixing pitch

Maximum pulse rise time
Refer to article table

Maximum peak current (Ipeak)
Refer to article table. Max. non repetitive Ipk= 1,5 x Ipeak

RMS Current (Irms)
Please refer to the artiche table; no superimposed Irms must be applied at Tamb.>+95°C (at Tamb.>+95°C Irms must be= 0)

Dissipation factor (DF), max. Tgδ x10^{-4}, at 25±5°C, 1kHz
≤ 6 for Cr ≤ 4.0µF
≤ 8 for 4.0 µF < Cr ≤ 12.0µF (P≤37.5mm)
≤ 11 for 12.0µF (P≤37.5mm) < Cr ≤ 20.0µF
≤ 14 for 20.0µF < Cr ≤ 40.0µF
≤ 18 for 40.0µF < Cr ≤ 75.0µF
≤ 22 for Cr > 75.0µF

Insulation resistance (IR)
≥ 3000s (10000s typical) but need not exceed 3GΩ, between terminals, at 25±°C, after 1 minute of electrification at 100Vdc

Test voltage between terminals (Ut)
1,5xUr (DC) or 1,5xUrms (AC) applied for 10s, at 25±5°C

Test voltage between terminals and case (Utc)
3kV 50÷60Hz applied for 60s at 25±5°C

Damp heat test (steady state)

Test conditions	Performance
Temperature= +40±2°C	Capacitance change ≤ ±3%
Relative humidity=93±2%	DF change ≤ 2 x initial limit (1kHz)
Test duration= 56 days	IR≥ 50% of initial limit value

Typical capacitance change versus operating time (at Tcase=+70°C)
±5% after 30'000 hours at Urms or after 100'000 hours at Ur

Life expectancy
≥ 60'000 hours at Urms or ≥ 200'000 hours at Ur with T(**case**) ≤+70°C: **expected life max. limit reference**.

≥ 30'000 hours at Urms or ≥ 100'000 hours at Ur with T(**case**)= +85°C: **reference for expected life calculations at different operating conditions** (and expected life at max. admissible voltage at +70°C, case).

≥ 10'000 hours at de-rated Urms (Urms x 0.8) or ≥ 30'000 hours at de-rated Ur (Ur x 0.8) at T(**case**)= +100°C; **NO superimposed Irms applied.**

Failure quota
300/10^9 component hours

Resistance to soldering heat test
Test conditions:
Solder bath temperature= +260±5°C
Dipping time (with heat screen)= 10±1s

Performance:
Capacitance change ≤ ±1%
DF change ≤ 0.0010 at 1kHz
IR≥ 50% of initial limit value

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Metallized polypropylene film capacitor
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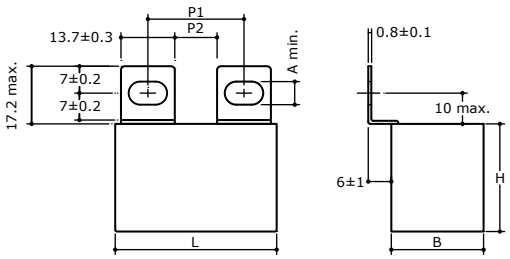
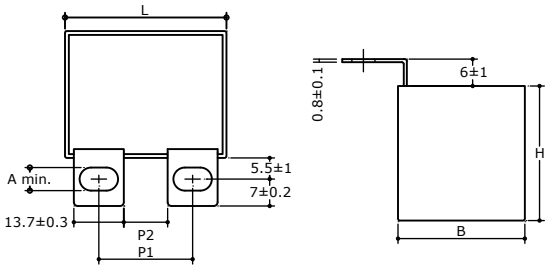
2/4/6 x Wire or lug terminals - Small size

Dimensions in mm (drawings not in scale)

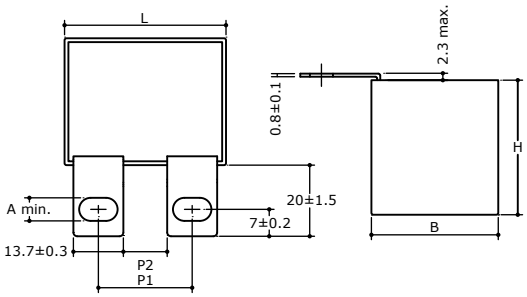
Style **SP**-**SPM8** / **SR**-**SRM8**



Style **VP**-**VPM8** / **VR**-**VRM8**



Style **FP**-**FPM8** / **FR**-**FRM8**

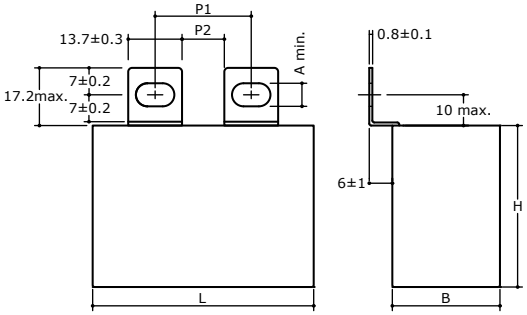


Fixing pitch and distance between lugs (mm)			
Lugs style	**L**	**P1**	**P2**
SP-SPM8 **VP-VPM8** **FP-FPM8**	42÷42,5	23÷28(M6) 25÷26(M8)	11min.
	57,5	37÷42(M6) 39÷40(M8)	24min.
SR-SRM8 **VR-VRM8** **FR-FRM8**	42÷42,5	20÷25(M6) 22÷23(M8)	8min.
	57.5	34÷39(M6) 36÷37(M8)	21min.

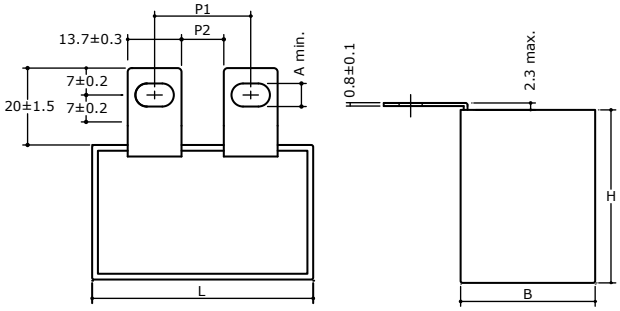
Fixing slot size (mm)**	
SP, VP, FP, SR, VR, FR	A=6min.
SPM8, VPM8, FPM8, SRM8, VRM8, FRM8	A=8min.

**** Standard fixing slots for M6 screws,**
slots for M8 screws available upon request

Style **SN**-**SNM8** (for L=57.5mm only)



Style **VN**-**VNM8** (for L=57.5mm only)

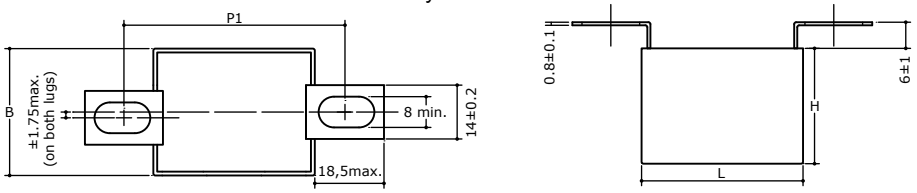


Fixing pitch and distance between lugs (mm)			
Lugs style	L	P1	P2
SN-SNM8 VN-VNM8	42÷42,5	Not available	
	57.5	23÷28(M6) 25÷26(M8)	11min.

Fixing slot size (mm)**	
SN, VN	A= 6min.
SNM8, VNM8	A= 8min.

**** Standard fixing slots for M6 screws,**
slots for M8 screws available upon request

Style **AP**



Fixing pitch and distance between lugs (mm)			
Lugs style	L	P1	P2
AP	42÷42,5	51÷64 (M8)	-
	57.5	65÷78 (M8)	-

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Metallized polypropylene film capacitor
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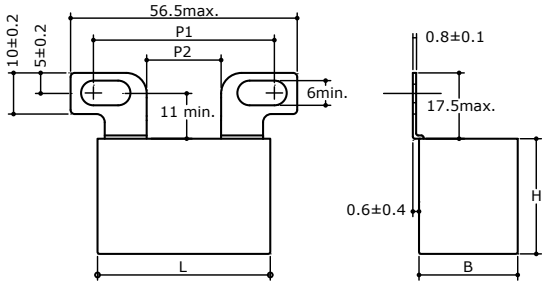
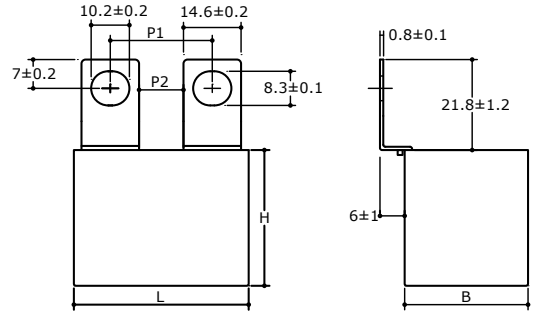
Dimensions in mm (drawings not in scale)

Style **BP** (Not available for L=57.5mm)



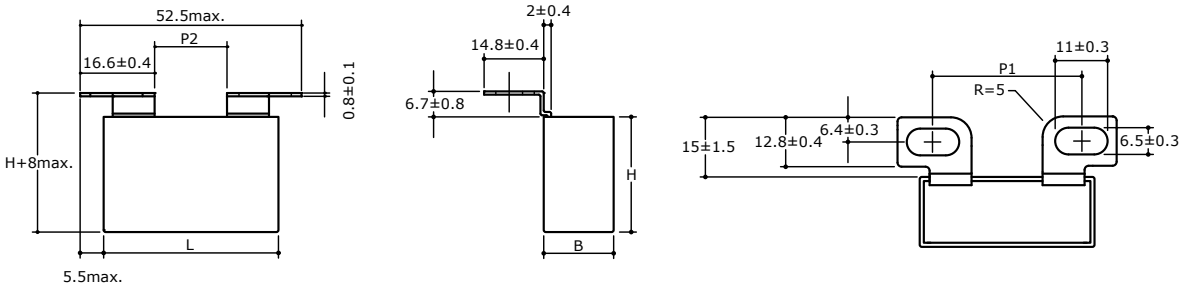
Fixing pitch and distance between lugs (mm)			
Lugs style	L	P1	P2
BP	42÷42.5	32÷45 (M6)	17min.
	57.5	Not available	

Style **SL** (M8 slots only)



Fixing pitch and distance between lugs (mm)			
Lugs style	L	P1	P2
SL	42÷42.5	22÷24 (M8)	8min.
	57.5	36÷38 (M8)	21min.

Style **BN** (M6 slots only; not available for L=57.5mm and for L=42÷42,5mm having B>22mm)



Fixing pitch and distance between lugs (mm)			
Lugs style	L	P1	P2
BN	42÷42.5	30÷37 (M6)	15min.
		Not available for B>22	
	57.5	Not available	

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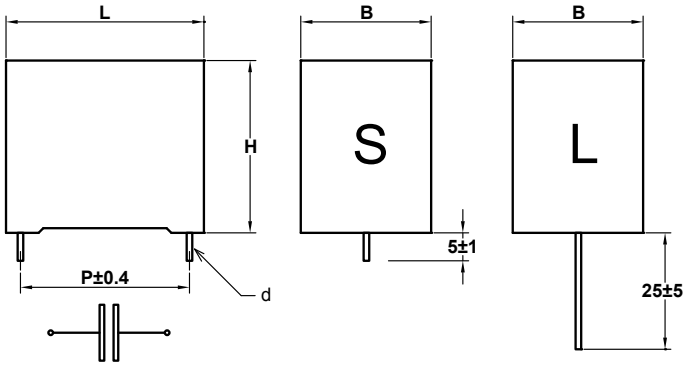
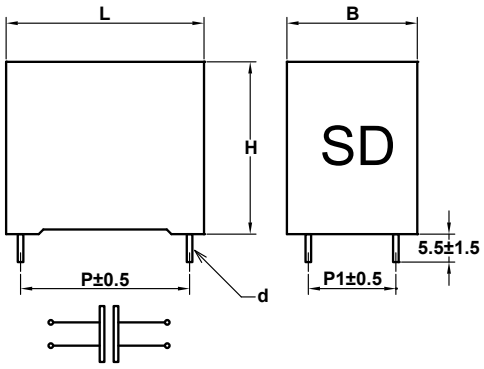
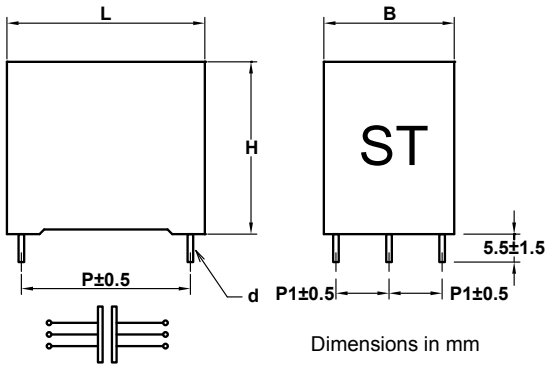
2 terminals execution



4 terminals execution



6 terminals execution



Dimensions in mm

MHBS - *(Expanded range; new lugs)*

Metallized polypropylene film capacitor
MKP - Switching - High current - DC-Link - AC
2/4/6 x Wire or lug terminals - Small size

MHBS35…: Ur=575Vdc; Urms= 240Vac [6]; Upkr= 660Vdc; Upk= 750Vdc
Max. admissible voltage at +70°C (case)= 630Vdc, 250Vac, Upkr=720Vdc, Upk=815Vdc

Cap.	Dimension in mm						du/dt	Ipeak	Irms max. (A) for Δt/Ta [1]			ESR[2]	ICEL Code[3]
µF	B	H	L	d	P	P1	V/µs	(A)	**+15°C**	+10°C	+5°C	mΩ	
3	11	20	32	0,8	27,5	-	27	81	**4**	3	2	16,5	MHBS354330*H#
3,3	11	20	32	0,8	27,5	-	27	89,1	**4,5**	3,5	2,5	15	MHBS354330*H#
4,7	13	22	32	1,0	27,5	-	27	126,9	**5,5**	4,5	3,5	11,6	MHBS354470*H#
5	13	22	32	1,0	27,5	-	27	135	**6**	4,5	3,5	11	MHBS354500*H#
6,8	15	24,5	32	1,0	27,5	-	27	102,6	**7**	5,5	4	9,4	MHBS354680*H#
7,5	14	28	32	1,2	27,5	-	27	202,5	**8**	6,5	4,5	8,6	MHBS354750*H#
10	18	33	32	1,2	27,5	-	27	270	**10**	8	5,5	7	MHBS355100*H#
12	18	33	32	1,2	27,5	-	27	324	**11**	8,5	6,5	6,1	MHBS355120*H#
12	18	33	32	1,2	27,5	5,1	27	324	**12**	9,5	7	5,4	MHBS355120*HSD
12	17	28	42,5	1,2	37,5	-	19	228	**9,5**	7,5	5,5	7,4	MHBS355120*J#
12	17	28	42,5	See lugs drawing			19	228	**11**	8,5	6,5	6,6	MHBS355120*§§
15	22	37	32	1,2	27,5	-	27	405	**13,5**	10,5	7,5	5,6	MHBS355150*H#
15	22	37	32	1,2	27,5	10,2	27	405	**14,5**	11,5	8,5	4,9	MHBS355150*HSD
15	22	30	42,5	1,2	37,5	-	19	285	**11**	8,5	6,5	6,4	MHBS355150*J#
15	22	30	42,5	See lugs drawing			19	285	**13**	10	7,5	5,6	MHBS355150*§§
20	20	40	41,5	1,2	37,5	-	19	380	**13,5**	11	8	5,6	MHBS355200*J#
20	20	40	41,5	1,2	37,5	10,2	19	380	**15**	12	8,5	5	MHBS355200*JSD
20	20	40	41,5	See lugs drawing [4]			19	380	**16,5**	12,5	9,5	4,8	MHBS355200*§§
25	28	37	42,5	1,2	37,5	-	19	475	**14**	11,5	8,5	5	MHBS355250*J#
25	28	37	42,5	1,2	37,5	10,2	19	475	**15,5**	12,5	9	4,4	MHBS355250*JSD
25	28	37	42,5	See lugs drawing			19	475	**17**	13,5	10	4,2	MHBS355250*§§
30	28	37	42,5	1,2	37,5	-	19	570	**14**	12	9	4,6	MHBS355300*J#
30	28	37	42,5	1,2	37,5	10,2	19	570	**16,5**	13	9,5	4	MHBS355300*JSD
30	28	37	42,5	See lugs drawing			19	570	**18,5**	14,5	10,5	3,8	MHBS355300*§§
30	24	44	41,5	1,2	37,5	-	19	570	**14**	12	9	4,6	MHBS355300*J#A
30	24	44	41,5	1,2	37,5	10,2	19	570	**17,5**	14	10	4	MHBS355300*JSDA
35	30	45	42,5	1,2	37,5	-	19	665	**14**	14	11	4,3	MHBS355350*J#
35	30	45	42,5	1,2	37,5	20,3	19	665	**19**	15,5	11	3,7	MHBS355350*JSD
35	30	45	42,5	See lugs drawing			19	665	**21**	16,5	12,5	3,5	MHBS355350*§§
40	30	45	42,5	1,2	37,5	-	19	760	**14**	14	11	4	MHBS355400*J#
40	30	45	42,5	1,2	37,5	20,3	19	760	**20**	16	12	3,4	MHBS355400*JSD
40	30	45	42,5	See lugs drawing			19	760	**22**	17,5	13	3,2	MHBS355400*§§
50	30	45	57,5	1,2	52,5	-	12,5	625	**14**	14	10	4,6	MHBS355500*R#
50	30	45	57,5	1,2	52,5	20,3	12,5	625	**19**	15,5	11	4	MHBS355500*RSD
50	30	45	57,5	See lugs drawing			12,5	625	**21,5**	17,5	12,5	3,8	MHBS355500*§§
60	30	45	57,5	1,2	52,5	-	12,5	750	**14**	14	10,5	4,2	MHBS355600*R#
60	30	45	57,5	1,2	52,5	20,3	12,5	750	**20,5**	16,5	12	3,6	MHBS355600*RSD
60	35	50	57,5	See lugs drawing			12,5	750	**23**	18,5	13,5	3,4	MHBS355600*§§
75	35	50	57,5	1,2	52,5	-	12,5	937,5	**14**	14	12	3,9	MHBS355750*R#
75	35	50	57,5	1,2	52,5	20,3	12,5	937,5	**23**	18,5	13,5	3,3	MHBS355750*RSD
75	35	50	57,5	See lugs drawing			12,5	937,5	**25,5**	20,5	15	3,1	MHBS355750*§§
90	38	57,5	57,5	1,2	52,5	20,3	12,5	1125	**25**	20	15	3,1	MHBS355900*RSD
90	38	57,5	57,5	1,2	52,5	10,2	12,5	1125	**26**	21	15,5	2,9	MHBS355900*RST
90	38	57,5	57,5	See lugs drawing			12,5	1125	**27,5**	22	16,5	2,9	MHBS355900*§§
100	38	57,5	57,5	1,2	52,5	20,3	12,5	1250	**26**	20,5	15,5	3	MHBS356100*RSD
100	38	57,5	57,5	1,2	52,5	10,2	12,5	1250	**27**	21,5	16	2,8	MHBS356100*RST

[1] at f=10kHz÷60kHz for P=27.5mm, at f=10kHz÷45kHz for P=37.5mm, at f=10kHz÷30kHz for P=52.5mm; Irms rating for Δt/Ta (Ta= T ambient)= +15°C typical is the absolute max. Irms applicable (ratings limited by terminals type and execution); **for lug terminals execution, the power dissipation capability is calculated considering all the box walls and sealing surface able to dissipate and not in contact with any surface**; Irms values are referred to max. tolerance on rated Capacitance=±10%, for wider C tolerances, ESR variation from typical data and related different power dissipation must be taken in consideration

[2] typical value at f=10kHz÷60kHz for P=27.5mm, at f=10kHz÷45kHz for P=37.5mm, at f=10kHz÷30kHz for P=52.5mm; for operating frequency out of the range, ESR variation from typical data and related different power dissipation must be taken in consideration

[3] change the "*" symbol with the desired capacitance tolerance code (±5%=J; ±10%=K); change the "#" symbol with S for 5mm and L for 25mm leads length terminals; change the "§§" characters with the desired lug style code

[4] Upon request only; [6] Not suitable for across the line applications

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Metallized polypropylene film capacitor
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MHBS40…: Ur=700Vdc; Urms= 285Vac [6]; Upkr= 805Vdc; Upk= 910Vdc
Max. admissible voltage at +70°C (case)= 770Vdc, 300Vac, Upkr=885Vdc, Upk=1000Vdc

Cap.	Dimension in mm						du/dt	Ipeak	Irms max. (A) for Δt/Ta [1]			ESR[2]	ICEL Code[3]
µF	B	H	L	d	P	P1	V/µs	(A)	**+15°C**	+10°C	+5°C	mΩ	
2,2	11	20	32	0,8	27,5	-	31	68.2	**4**	3	2,5	17,7	MHBS404220*H#
2,5	11	20	32	0,8	27,5	-	31	77,5	**4,5**	3,5	3	15,8	MHBS404250*H#
3,3	13	22	32	1,0	27,5	-	31	102,3	**5,5**	4,5	3,5	13,3	MHBS404330*H#
4,7	15	24,5	32	1,0	27,5	-	31	145,7	**6,5**	5,5	4	10,5	MHBS404470*H#
5	15	24,5	32	1,2	27,5	-	31	155	**7**	5,5	4	9,7	MHBS404500*H#
7,5	14	25	42,5	1,2	37,5	-	21	157,5	**7,5**	6	4,5	9,2	MHBS404750*J#
10	18	33	32	1,2	27,5	-	31	310	**11**	8,5	6	6,7	MHBS405100*H#
10	18	33	32	1,2	27,5	5,1	31	310	**12**	9,5	6,5	6	MHBS405100*HSD
12	22	37	32	1,2	27,5	-	31	372	**13**	10,5	7,5	5,8	MHBS405120*H#
12	22	37	32	1,2	27,5	10,2	31	372	**14,5**	11,5	8,5	5,2	MHBS405120*HSD
12	22	30	42,5	1,2	37,5	-	21	252	**11**	8,5	6,5	6,4	MHBS405120*J#
12	22	30	42,5	See lugs drawing			21	252	**13**	10	7,5	5,6	MHBS405120*§§
15	22	33,5	42,5	1,2	37,5	-	21	315	**12**	9,5	7	5,5	MHBS405150*J#
15	22	33,5	42,5	1,2	37,5	5,1	21	315	**13,5**	10,5	7,5	4,9	MHBS405150*JSD
15	22	33,5	42,5	See lugs drawing			21	315	**14,5**	11,5	8,5	4,7	MHBS405150*§§
20	24	44	41,5	See lugs drawing [4]			21	420	**18,5**	14,5	10,5	4,1	MHBS405200*§§
20	28	37	42,5	1,2	37,5	-	21	420	**14**	11,5	8,5	4,9	MHBS405200*J#
20	28	37	42,5	1,2	37,5	10,2	21	420	**16**	12,5	9	4,3	MHBS405200*JSD
20	28	37	42,5	See lugs drawing			21	420	**17,5**	14	10	4,1	MHBS405200*§§A
22	24	44	41,5	1,2	37,5	-	21	462	**14**	13	9,5	4,6	MHBS405220*J#
22	24	44	41,5	1,2	37,5	10,2	21	462	**17,5**	14	10,5	4	MHBS405220*JSD
22	24	44	41,5	See lugs drawing			21	462	**19,5**	15,5	11,5	3,8	MHBS405220*J§§
22	28	37	42,5	1,2	37,5	-	21	462	**14**	12	9	4,6	MHBS405220*J#A
22	28	37	42,5	1,2	37,5	10,2	21	462	**16,5**	13,5	10	4	MHBS405220*JSDA
22	28	37	42,5	See lugs drawing			21	462	**18,5**	14,5	10,5	3,8	MHBS405220*J§§A
25	24	44	41,5	1,2	37,5	-	21	525	**14**	13,5	10	4,3	MHBS405250*J#
25	24	44	41,5	1,2	37,5	10,2	21	525	**19**	15	11	3,7	MHBS405250*JSD
25	24	44	41,5	See lugs drawing [4]			21	525	**21**	16,5	12	3,5	MHBS405250*J§§
30	30	45	42,5	1,2	37,5	-	21	630	**14**	14	11	4	MHBS405300*J#
30	30	45	42,5	1,2	37,5	20,3	21	630	**20,5**	16	12	3,4	MHBS405300*JSD
30	30	45	42,5	See lugs drawing			21	630	**22,5**	17,5	13	3,2	MHBS405300*§§
40	30	45	57,5	1,2	52,5	-	14,5	580	**14**	14	10,5	4,4	MHBS405400*R#
40	30	45	57,5	1,2	52,5	20,3	14,5	580	**20**	16	11,5	3,8	MHBS405400*RSD
40	30	45	57,5	See lugs drawing			14,5	580	**22**	17,5	12,5	3,6	MHBS405400*§§
45	30	45	57,5	1,2	52,5	-	14,5	652,5	**14**	14	11	4,2	MHBS405450*R#
45	30	45	57,5	1,2	52,5	20,3	14,5	652,5	**21**	16,5	12	3,6	MHBS405450*RSD
45	30	45	57,5	See lugs drawing			14,5	652,5	**23**	18	13	3,4	MHBS405450*§§
50	35	50	57,5	1,2	52,5	-	14,5	725	**14**	14	12	4	MHBS405500*R#
50	35	50	57,5	1,2	52,5	20,3	14,5	725	**22,5**	18	13	3,4	MHBS405500*RSD
50	35	50	57,5	See lugs drawing			14,5	725	**24,5**	19,5	14,5	3,2	MHBS405500*§§
55	35	50	57,5	1,2	52,5	-	14,5	797,5	**14**	14	12,5	3,9	MHBS405550*R#
55	35	50	57,5	1,2	52,5	20,3	14,5	797,5	**23,5**	19	13,5	3,3	MHBS405550*RSD
55	35	50	57,5	See lugs drawing			14,5	797,5	**25,5**	20,5	15	3,1	MHBS405550*§§
60	35	50	57,5	1,2	52,5	-	14,5	870	**14**	14	13	3,7	MHBS405600*R#
60	35	50	57,5	1,2	52,5	20,3	14,5	870	**24,5**	19,5	14	3,1	MHBS405600*RSD
60	35	50	57,5	See lugs drawing			14,5	870	**26,5**	21	15,5	2,9	MHBS405600*§§
75	38	57,5	57,5	1,2	52,5	20,3	14,5	1087,5	**26**	20,5	15,5	2,9	MHBS405750*RSD
75	38	57,5	57,5	1,2	52,5	10,2	14,5	1087,5	**27**	21,5	16	2,7	MHBS405750*RST
75	38	57,5	57,5	See lugs drawing			14,5	1087,5	**28,5**	23	17	2,7	MHBS405750*§§
80	38	57,5	57,5	1,2	52,5	20,3	14,5	1160	**26,5**	21	16	2,8	MHBS405800*RSD
80	38	57,5	57,5	1,2	52,5	10,2	14,5	1160	**27,5**	22	16,5	2,6	MHBS405800*RST

[1] at f=10kHz÷60kHz for P=27.5mm, at f=10kHz÷45kHz for P=37.5mm, at f=10kHz÷30kHz for P=52.5mm; Irms rating for Δt/Ta (Ta= T ambient)= +15°C typical is the absolute max. Irms applicable (ratings limited by terminals type and execution); **for lug terminals execution, the power dissipation capability is calculated considering all the box walls and sealing surface able to dissipate and not in contact with any surface**; Irms values are referred to max. tolerance on rated Capacitance=±10%, for wider C tolerances ESR variation from typical data and related different power dissipation must be taken in consideration

[2] typical value at f=10kHz÷60kHz for P=27.5mm, at f=10kHz÷45kHz for P=37.5mm, at f=10kHz÷30kHz for P=52.5mm; for operating frequency out of the range, ESR variation from typical data and related different power dissipation must be taken in consideration

[3] change the "*" symbol with the desired capacitance tolerance code (±5%=J; ±10%=K); change the "#" symbol with S for 5mm and L for 25mm leads length terminals; change the "§§" characters with the desired lug style code

[4] Upon request only; [6] Not suitable for across the line applications

MHBS - *(Expanded range; new lugs)*

Metallized polypropylene film capacitor
MKP - Switching - High current - DC-Link - AC
2/4/6 x Wire or lug terminals - Small size

MHBS45…: Ur=800Vdc; Urms= 315Vac [6]; Upkr= 920Vdc; Upk= 1040Vdc
Max. admissible voltage at +70°C (case)= 880Vdc, 330Vac, Upkr=1010Vdc, Upk=1140Vdc

Cap.	Dimension in mm						du/dt	Ipeak	Irms max. (A) for Δt/Ta [1]			ESR[2]	ICEL Code[3]
µF	B	H	L	d	P	P1	V/µs	(A)	**+15°C**	+10°C	+5°C	mΩ	
2	11	20	32	0,8	27,5	-	36	72	**4**	3,5	2,5	16,7	MHBS454200*H#
2,2	11	20	32	0,8	27,5	-	36	79,2	**4,5**	4	3	15,3	MHBS454220*H#
3	13	22	32	1,0	27,5	-	36	108	**5,5**	4,5	3,5	12,4	MHBS454300*H#
4	15	24,5	32	1,0	27,5	-	36	144	**6,5**	5,5	4	10,8	MHBS454400*H#
5	14	28	32	1,2	27,5	-	36	180	**8**	6,5	4,5	9,4	MHBS454500*H#
5	14	25	42,5	1,2	37,5	-	24	120	**7,5**	6	4	10,3	MHBS454500*J#
6,8	18	33	32	1,2	27,5	-	36	244,8	**9,5**	7,5	5,5	7,6	MHBS454680*H#
7,5	18	33	32	1,2	27,5	-	36	270	**10,5**	8,5	6	7,1	MHBS454750*H#
7,5	18	33	32	1,2	27,5	5,1	36	270	**11,5**	9	6,5	6,5	MHBS454750*HSD
7,5	17	28	42,5	1,2	37,5	-	24	180	**9**	7	5	8,3	MHBS454750*J#
7,5	17	28	42,5	See lugs drawing			24	180	**10,5**	8,5	6	7,5	MHBS454750*§§
10	22	37	32	1,2	27,5	-	36	360	**13**	10,5	7,5	5,9	MHBS455100*H#
10	22	37	32	1,2	27,5	10,2	24	360	**14,5**	11,5	8,5	5,3	MHBS455100*HSD
10	22	30	42,5	1,2	37,5	-	24	240	**10,5**	8,5	6	7	MHBS455100*J#
10	22	30	42,5	1,2	37,5	5,1	24	240	**11,5**	9	6,5	6,4	MHBS455100*JSD
10	22	30	42,5	See lugs drawing			24	240	**12,5**	10	7,5	6,2	MHBS455100*§§
12	22	33,5	42,5	1,2	37,5	-	24	288	**11,5**	9	7	6,4	MHBS455120*J#
12	22	33,5	42,5	1,2	37,5	5,1	24	288	**12,5**	10	7,5	5,8	MHBS455120*JSD
12	22	33,5	42,5	See lugs drawing			24	288	**13,5**	11	8	5,6	MHBS455120*§§
15	20	40	41,5	1,2	37,5	-	24	360	**13,5**	11	8	5,6	MHBS455150*J#
15	20	40	41,5	1,2	37,5	10,2	24	360	**15**	12	8,5	5	MHBS455150*JSD
20	24	44	41,5	1,2	37,5	-	24	480	**14**	13	9,5	4,8	MHBS455200*J#
20	24	44	41,5	1,2	37,5	10,2	24	480	**18**	14,5	10,5	4,2	MHBS455200*JSD
22	30	45	42,5	1,2	37,5	-	24	528	**14**	13,5	10	4,6	MHBS455220*J#
22	30	45	42,5	1,2	37,5	20,3	24	528	**18,5**	14,5	10,5	4	MHBS455220*JSD
22	30	45	42,5	See lugs drawing			24	528	**20,5**	16	12	3,8	MHBS455220*§§
25	30	45	42,5	1,2	37,5	-	24	600	**14**	14	10,5	4,3	MHBS455250*J#
25	30	45	42,5	1,2	37,5	20,3	24	600	**19,5**	15,5	11,5	3,7	MHBS455250*JSD
25	30	45	42,5	See lugs drawing			24	600	**22**	17	12,5	3,5	MHBS455250*§§
30	30	45	57,5	1,2	52,5	-	16,5	495	**14**	14	10	4,9	MHBS455300*R#
30	30	45	57,5	1,2	52,5	20,3	16,5	495	**19**	15,5	11	4,3	MHBS455300*RSD
30	30	45	57,5	See lugs drawing			16,5	495	**21**	16,5	12	4,1	MHBS455300*§§
35	30	45	57,5	1,2	52,5	-	16,5	577,5	**14**	14	11	4,5	MHBS455350*R#
35	30	45	57,5	1,2	52,5	20,3	16,5	577,5	**20**	16	11,5	3,9	MHBS455350*RSD
35	30	45	57,5	See lugs drawing			16,5	577,5	**22**	17,5	13	3,7	MHBS455350*§§
40	35	50	57,5	1,2	52,5	-	16,5	660	**14**	14	11,5	4,2	MHBS455400*R#
40	35	50	57,5	1,2	52,5	20,3	16,5	660	**21,5**	17,5	12,5	3,6	MHBS455400*RSD
40	35	50	57,5	See lugs drawing			16,5	660	**23,5**	19	14	3,4	MHBS455400*§§
45	35	50	57,5	1,2	52,5	-	16,5	742,5	**14**	14	12	4	MHBS455450*R#
45	35	50	57,5	1,2	52,5	20,3	16,5	742,5	**23**	18,5	13,5	3,4	MHBS455450*RSD
45	35	50	57,5	See lugs drawing			16,5	742,5	**25,5**	20	15	3,2	MHBS455450*§§
47	35	50	57,5	1,2	52,5	-	16,5	775,5	**14**	14	12,5	3,9	MHBS455470*R#
47	35	50	57,5	1,2	52,5	20,3	16,5	775,5	**23,5**	19	13,5	3,3	MHBS455470*RSD
60	38	57,5	57,5	1,2	52,5	20,3	16,5	990	**25,5**	20,5	15,5	3	MHBS455600*RSD
60	38	57,5	57,5	1,2	52,5	10,2	16,5	990	**26,5**	21,5	15,5	2,8	MHBS455600*RST
60	38	57,5	57,5	See lugs drawing			16,5	990	**28,5**	22,5	16,5	2,8	MHBS455600*§§
65	38	57,5	57,5	1,2	52,5	20,3	16,5	1072,5	**26,5**	21	15,5	2,9	MHBS455650*RSD
65	38	57,5	57,5	1,2	52,5	10,2	16,5	1072,5	**27,5**	22	16	2,7	MHBS455650*RST

[1] at f=10kHz÷60kHz for P=27.5mm, at f=10kHz÷45kHz for P=37.5mm, at f=10kHz÷30kHz for P=52.5mm; Irms rating for Δt/Ta (Ta= T ambient)= +15°C typical is the absolute max. Irms applicable (ratings limited by terminals type and execution); **for lug terminals execution, the power dissipation capability is calculated considering all the box walls and sealing surface able to dissipate and not in contact with any surface**; Irms values are referred to max. tolerance on rated Capacitance=±10%, for wider C tolerances ESR variation from typical data and related different power dissipation must be taken in consideration

[2] typical value at f=10kHz÷60kHz for P=27.5mm, at f=10kHz÷45kHz for P=37.5mm, at f=10kHz÷30kHz for P=52.5mm; for operating frequency out of the range, ESR variation from typical data and related different power dissipation must be taken in consideration

[3] change the "*" symbol with the desired capacitance tolerance code (±5%=J; ±10%=K); change the "#" symbol with S for 5mm and L for 25mm leads length terminals; change the "§§" characters with the desired lug style code

[4] Upon request only; [6] Not suitable for across the line applications

MHBS - *(Expanded range; new lugs)*

Metallized polypropylene film capacitor
MKP - Switching - High current - DC-Link - AC
2/4/6 x Wire or lug terminals - Small size

MHBS50…: Ur=900Vdc; Urms= 350Vac [6]; Upkr= 1035Vdc; Upk= 1170VdcMax.
Max. voltage at +70°C (case)= 1000Vdc, 370Vac, Upkr=1150Vdc, Upk=1300Vdc

Cap.	Dimension in mm						du/dt	Ipeak	Irms max. (A) for Δt/Ta [1]			ESR[2]	ICEL Code[3]
µF	B	H	L	d	P	P1	V/µs	(A)	**+15°C**	+10°C	+5°C	mΩ	
2,2	13	22	32	1,0	27,5	-	41,5	91,3	**5**	4	3	14,7	MHBS504220*H#
2,5	13	22	32	1,0	27,5	-	41,5	103,7	**5,5**	4,5	3	13,5	MHBS504250*H#
3	15	24,5	32	1,0	27,5	-	41,5	124,5	**6,5**	5	3,5	11,9	MHBS504300*H#
3,3	14	28	32	1,2	27,5	-	41,5	137	**7**	5,5	4	11	MHBS504330*H#
4,7	18	33	32	1,2	27,5	-	41,5	195	**8,5**	6,5	5	9	MHBS504470*H#
4,7	14	25	42,5	1,2	37,5	-	28	131,6	**7**	5,5	4	10,6	MHBS504470*J#
6	18	33	32	1,2	27,5	-	41,5	249	**10**	8	6	7,6	MHBS504600*H#
6	18	33	32	1,2	27,5	5,1	41,5	249	**11**	8,5	6	7	MHBS504600*HSD
6	17	28	42.5	1,2	37,5	-	28	168	**8,5**	6,5	5	9,2	MHBS504600*J#
6	17	28	42,5	See lugs drawing			28	168	**10**	8	6	8,4	MHBS504600*§§
7,5	22	37	32	1,2	27,5	-	41,5	311,2	**12,5**	9,5	7	6,9	MHBS504750*H#
7,5	22	37	32	1,2	27,5	10,2	41,5	311,2	**13,5**	10,5	8	6,3	MHBS504750*HSD
7,5	22	30	42,5	1,2	37,5	-	28	210	**10**	8	5,5	8	MHBS504750*J#
7,5	22	30	42,5	See lugs drawing			28	210	**12**	9,5	7	7,2	MHBS504750*§§
10	22	33,5	42,5	1,2	37,5	-	28	280	**11,5**	9	6,5	6,8	MHBS505100*J#
10	22	33,5	42,5	1,2	37,5	5,1	28	280	**12,5**	9,5	7	6,2	MHBS505100*JSD
10	22	33,5	42,5	See lugs drawing			28	280	**13,5**	10,5	8	6	MHBS505100*§§
12	20	40	41,5	1,2	37,5	-	28	336	**13,5**	11	7,5	6,3	MHBS505120*J#
12	20	40	41,5	1,2	37,5	10,2	28	336	**14,5**	11,5	8	5,7	MHBS505120*JSD
12	20	40	41,5	See lugs drawing [4]			28	336	**15,5**	12,5	9	5,5	MHBS505120*§§
15	24	44	41,5	1,2	37,5	-	28	420	**14**	12,5	9,5	5,3	MHBS505150*J#
15	24	44	41,5	1,2	37,5	10,2	28	420	**17**	14	10,5	4,7	MHBS505150*JSD
15	24	44	41,5	See lugs drawing[4]			28	420	**18,5**	15	11,5	4,5	MHBS505150*§§
15	28	37	42,5	1,2	37,5	-	28	420	**14**	11,5	8	5,3	MHBS505150*J#A
15	28	37	42,5	1,2	37,5	10,2	28	420	**15,5**	12,5	9	4,7	MHBS505150*JSDA
15	28	37	42,5	See lugs drawing			28	420	**17,5**	14	10,5	4,5	MHBS505150*§§A
20	30	45	42,5	1,2	37,5	-	28	560	**14**	14	10,5	4,5	MHBS505200*J#
20	30	45	42,5	1,2	37,5	20,3	28	560	**19**	15	11	3,9	MHBS505200*JSD
20	30	45	42,5	See lugs drawing			28	560	**21**	16,5	12	3,7	MHBS505200*§§
25	30	45	57,5	1,2	52,5	-	18,5	462,5	**14**	13	10	5,3	MHBS505250*R#
25	30	45	57,5	1,2	52,5	20,3	18,5	462,5	**18**	15	11	4,7	MHBS505250*RSD
25	30	45	57,5	See lugs drawing			18,5	462,5	**19,5**	16	11,5	4,5	MHBS505250*§§
35	35	50	57,5	1,2	52,5	-	18,5	647,5	**14**	14	12	4,2	MHBS505350*R#
35	35	50	57,5	1,2	52,5	20,3	18,5	647,5	**22**	17,5	13	3,6	MHBS505350*RSD
35	35	50	57,5	See lugs drawing			18,5	647,5	**24**	19	14	3,4	MHBS505350*§§
40[5]	35	50	57,5	1,2	52,5	-	18,5	740	**14**	14	13	3,9	MHBS505400*R#[5]
40[5]	35	50	57,5	1,2	52,5	20,3	18,5	740	**23,5**	19	13,5	3,3	MHBS505400*RSD[5]
47	38	57,5	57,5	1,2	52,5	20,3	18,5	869,5	**25,5**	20,5	15	3	MHBS505470*RSD
47	38	57,5	57,5	1,2	52,5	10,2	18,5	869,5	**26,5**	21,5	15,5	2,8	MHBS505470*RST
47	38	57,5	57,5	See lugs drawing			18,5	869,5	**28,5**	23	16,5	2,8	MHBS505470*§§
50	38	57,5	57,5	1,2	52,5	20,3	18,5	925	**26**	21	15	3	MHBS505500*RSD
50	38	57,5	57,5	1,2	52,5	10,2	18,5	925	**27**	22	16	2,8	MHBS505500*RST

[1] at f=10kHz÷60kHz for P=27.5mm, at f=10kHz÷45kHz for P=37.5mm, at f=10kHz÷30kHz for P=52.5mm; Irms rating for Δt/Ta (Ta= T ambient)= +15°C typical is the absolute max. Irms applicable (ratings limited by terminals type and execution); **for lug terminals execution, the power dissipation capability is calculated considering all the box walls and sealing surface able to dissipate and not in contact with any surface**; Irms values are referred to max. tolerance on rated Capacitance=±10%, for wider C tolerances ESR variation from typical data and related different power dissipation must be taken in consideration

[2] typical value at f=10kHz÷60kHz for P=27.5mm, at f=10kHz÷45kHz for P=37.5mm, at f=10kHz÷30kHz for P=52.5mm; for operating frequency out of the range, ESR variation from typical data and related different power dissipation must be taken in consideration

[3] change the "*" symbol with the desired capacitance tolerance code (±5%=J; ±10%=K); change the "#" symbol with S for 5mm and L for 25mm leads length terminals; change the "§§" characters with the desired lug style code

[4] Upon request only; [6] Not suitable for across the line applications

[5] **Not available with tolerance on Capacitance < ±10%**

MHBS - *(Expanded range; new lugs)*

Metallized polypropylene film capacitor
MKP - Switching - High current - DC-Link - AC
2/4/6 x Wire or lug terminals - Small size

MHBS55…: =1000Vdc; Urms= 400Vac [6]; Upkr= 1150Vdc; Upk= 1300Vdc
Max. admissible voltage at +70°C (case)= 1100Vdc, 420Vac, Upkr=1265Vdc, Upk=1430Vdc

Cap.	Dimension in mm						du/dt	Ipeak	Irms max. (A) for Δt/Ta [1]			ESR[2]	ICEL Code[3]
µF	B	H	L	d	P	P1	V/µs	(A)	**+15°C**	+10°C	+5°C	mΩ	
1,2	11	20	32	0,8	27,5	-	47	56,4	**3,5**	2,5	2	20,5	MHBS554120*H#
1,5	11	20	32	0,8	27,5	-	47	70,5	**4,5**	3,5	2,5	17,8	MHBS554150*HS
2,0	13	22	32	1,0	27,5	-	47	96	**5,5**	4	3	14,5	MHBS554200*H#
2,5	15	24,5	32	1,0	27,5	-	47	117,5	**6**	5	3,5	12,8	MHBS554250*H#
3	14	28	32	1,2	27,5	-	47	141	**7.5**	6	4	11	MHBS554300*H#
4	14	25	42,5	1,2	37,5	-	31	124	**7**	5,5	4	11	MHBS554400*J#
4,7	18	33	32	1,2	27,5	-	47	220,9	**9,5**	7,5	5,5	8,3	MHBS554470*H#
4,7	18	33	32	1,2	27,5	10,2	47	220,9	**10,5**	8,5	6	7,7	MHBS554470*HSD
4,7	17	28	42,5	1,2	37,5	-	31	145,7	**8,5**	6,5	4,5	9,6	MHBS554470*J#
4,7	17	28	42,5	See lugs drawing			31	145,7	**9,5**	7,5	5,5	8,7	MHBS554470*§§
5	18	33	32	1,2	27,5	-	47	235	**10**	7,5	5,5	8	MHBS554500*H#
5	18	33	32	1,2	27,5	10,2	47	235	**11**	9	6,5	7,4	MHBS554500*HSD
5	17	28	42,5	1,2	37,5	-	31	155	**9,5**	7,5	5,5	9,3	MHBS554500*J#
5	17	28	42,5	See lugs drawing			31	155	**10,5**	8,5	6	8,5	MHBS554500*§§
6,8	22	37	32	1,2	27,5	-	47	319,6	**12**	10	7,5	6,9	MHBS554680*H#
6,8	22	37	32	1,2	27,5	10,2	47	319,6	**13,5**	11	8	6,3	MHBS554680*HSD
6,8	22	30	42,5	1,2	37,5	-	31	210,8	**10**	8	6	7,9	MHBS554680*J#
6,8	22	30	42,5	See lugs drawing			31	210,8	**11,5**	9	7	7,1	MHBS554680*§§
7,5	22	33,5	42,5	1,2	37,5	-	31	232,5	**11**	8,5	6,5	7,4	MHBS554750*J#
7,5	22	33,5	42,5	1,2	37,5	5,1	31	232,5	**12**	9,5	7	6,8	MHBS554750*JSD
7,5	22	33,5	42,5	See lugs drawing			31	232,5	**13**	10,5	7,5	6,6	MHBS554750*§§
9	20	40	41,5	1,2	37,5	-	31	279	**13**	10	7,5	6,6	MHBS554900*J#
9	20	40	41,5	1,2	37,5	10,2	31	279	**14,5**	11	8	6	MHBS554900*JSD
9	20	40	41,5	See lugs drawing [4]			31	279	**15,5**	12	8,5	5,8	MHBS554900*§§
10	20	40	41,5	1,2	37,5	-	31	310	**13,5**	10,5	8	6,3	MHBS555100*J#
10	20	40	41,5	1,2	37,5	10,2	31	310	**15**	11,5	8,5	5,7	MHBS555100*JSD
12	24	44	41,5	1,2	37,5	-	31	372	**14**	12	9	5,7	MHBS555120*J#
12	24	44	41,5	1,2	37,5	10,2	31	372	**16,5**	13,5	9,5	5,1	MHBS555120*JSD
12	24	44	41,5	See lugs drawing [4]			31	372	**18**	14	10,5	4,9	MHBS555120*§§
12	28	37	42,5	1,2	37,5	-	31	372	**14**	11,5	8	5,7	MHBS555120*J#A
12	28	37	42,5	1,2	37,5	10,2	31	372	**15**	12	9	5,1	MHBS555120*JSDA
12	28	37	42,5	See lugs drawing			31	372	**16,5**	13,5	10	4,9	MHBS555120*§§
15	30	45	42,5	1,2	37,5	-	31	465	**14**	13,5	10	5	MHBS555150*J#
15	30	45	42,5	1,2	37,5	20,3	31	465	**18**	14,5	11	4,4	MHBS555150*JSD
15	30	45	42,5	See lugs drawing			31	465	**20**	16	12	4,2	MHBS555150*§§
22	30	45	57,5	1,2	52,5	-	21	462	**14**	13.5	10	5,1	MHBS555220*R#
22	30	45	57,5	1,2	52,5	20,3	21	462	**18,5**	15	11	4,5	MHBS555220*RSD
22	30	45	57,5	See lugs drawing			21	462	**20,5**	16,5	12	4,3	MHBS555220*§§
30	35	50	57,5	1,2	52,5	-	21	630	**14**	14	11,5	4,3	MHBS555300*R#
30	35	50	57,5	1,2	52,5	20,3	21	630	**22**	17,5	12,5	3,8	MHBS555300*RSD
30	35	50	57,5	See lugs drawing			21	630	**24**	19	13,5	3,6	MHBS555300*§§
33	35	50	57,5	1,2	52,5	-	21	693	**14**	14	12	4,1	MHBS555330*R#
33	35	50	57,5	1,2	52,5	20,3	21	693	**23**	18,5	13	3,5	MHBS555330*RSD
40	38	57,5	57,5	1,2	52,5	20,3	21	840	**25**	20	14,5	3,2	MHBS555400*RSD
40	38	57,5	57,5	1,2	52,5	10,2	21	840	**26**	21	15	3	MHBS555400*RST
40	38	57,5	57,5	See lugs drawing			21	840	**27,5**	22	16,5	3	MHBS555400*§§

[1] at f=10kHz÷60kHz for P=27.5mm, at f=10kHz÷45kHz for P=37.5mm, at f=10kHz÷30kHz for P=52.5mm; Irms rating for Δt/Ta (Ta= T ambient)= +15°C typical is the absolute max. Irms applicable (ratings limited by terminals type and execution); **for lug terminals execution, the power dissipation capability is calculated considering all the box walls and sealing surface able to dissipate and not in contact with any surface**; Irms values are referred to max. tolerance on rated Capacitance=±10%, for wider C tolerances ESR variation from typical data and related different power dissipation must be taken in consideration

[2] typical value at f=10kHz÷60kHz for P=27.5mm, at f=10kHz÷45kHz for P=37.5mm, at f=10kHz÷30kHz for P=52.5mm; for operating frequency out of the range, ESR variation from typical data and related different power dissipation must be taken in consideration

[3] change the "*" symbol with the desired capacitance tolerance code (±5%=J; ±10%=K); change the "#" symbol with S for 5mm and L for 25mm leads length terminals; change the "§§" characters with the desired lug style code

[4] Upon request only; [6] Not suitable for across the line applications

MHBS - *(Expanded range; new lugs)*

Metallized polypropylene film capacitor
MKP - Switching - High current - DC-Link - AC
2/4/6 x Wire or lug terminals - Small size

MHBS60...: Ur=1100Vdc; Urms= 420Vac [6]; Upkr= 1265Vdc; Upk= 1430Vdc
Max. admissible voltage at +70°C= 1200Vdc, 440Vac, Upkr=1380Vdc, Upk=1560Vdc

Cap.	Dimension in mm						du/dt	Ipeak	Irms max. (A) for Δt/Ta [1]			ESR[2]	ICEL Code[3]
µF	B	H	L	d	P	P1	V/µs	(A)	**+15°C**	+10°C	+5°C	mΩ	
1	11	20	32	0,8	27,5	-	50	50	**3,5**	2,5	2	20,5	MHBS604100*H#
1.2	11	20	32	0,8	27,5	-	50	60	**4,5**	3,5	2,5	18	MHBS604120*H#
1,5	13	22	32	1,0	27,5	-	50	75	**5**	4	3	15,5	MHBS604150*H#
2	15	24,5	32	1,0	27,5	-	50	100	**6**	5	3,5	12,9	MHBS604200*H#
2,2	15	24,5	32	1,0	27,5	-	50	110	**6**	5	3,5	12,2	MHBS604220*H#
2,5	14	28	32	1,2	27,5	-	50	125	**7**	5,5	4	10,8	MHBS604250*H#
3	14	25	42	1,2	37,5	-	34	102	**6,5**	5	4	11,8	MHBS604300*J#
3,3	18	33	32	1,2	27,5	-	50	165	**9**	7	5	9,2	MHBS604330*H#
4	18	33	32	1,2	27,5	-	50	200	**9,5**	7,5	5,5	8,1	MHBS604400*H#
4	18	33	32	1,2	27,5	5,1	50	200	**10,5**	8,5	6	7,5	MHBS604400*HSD
4	17	28	42,5	1,2	37,5	-	34	136	**8,5**	6,5	4,5	9,9	MHBS604400*J#
4	17	28	42,5	See lugs drawing			34	136	**9,5**	7,5	5,5	9,1	MHBS604400*§§
4,7	22	37	32	1,2	27,5	-	50	235	**11,5**	9	7	7,4	MHBS604470*H#
4,7	22	37	32	1,2	27,5	10,2	50	235	**12,5**	10	7,5	6,8	MHBS604470*HSD
4,7	22	30	42,5	1,2	37,5	-	34	159,8	**10**	7,5	5,5	8,3	MHBS604470*J#
4,7	22	30	42,5	See lugs drawing			34	159,8	**11,5**	8,5	6,5	7,5	MHBS604470*§§
5	22	37	32	1,2	27,5	-	50	250	**12**	9,5	7	7,2	MHBS604500*H#
5	22	37	32	1,2	27,5	10,2	50	250	**13**	10,5	7,5	6,6	MHBS604500*HSD
5	22	30	42,5	1,2	37,5	-	34	170	**10,5**	8	5,5	8,1	MHBS604470*J#
5	22	30	42,5	See lugs drawing			34	170	**12**	9	6,5	7,3	MHBS604470*§§
6,8	22	33,5	42,5	1,2	37,5	-	34	231,2	**11**	9	6,5	6,9	MHBS604680*J#
6,8	22	33,5	42,5	1,2	37,5	5,1	34	231,2	**12**	9,5	7	6,3	MHBS604680*JSD
6,8	22	33,5	42,5	See lugs drawing			34	231,2	**13**	10,5	7,5	6,1	MHBS604680*§§
7,5	22	33,5	42,5	1,2	37,5	-	34	255	**11,5**	9,5	6,5	6,6	MHBS604750*J#
7,5	22	33,5	42,5	1,2	37,5	10,2	34	255	**12,5**	10,5	7,5	6	MHBS604750*JSD
7,5	20	40	41,5	See lugs drawing [4]			34	255	**14**	11,5	8,5	5,8	MHBS604750*§§
10	24	44	41,5	1,2	37,5	-	34	340	**14**	12,5	9	5,5	MHBS605100*J#
10	24	44	41,5	1,2	37,5	10,2	34	340	**17**	13,5	10	4,9	MHBS605100*JSD
10	24	44	41,5	See lugs drawing [4]			34	340	**18,5**	14,5	10,5	4,7	MHBS605100*§§
10	28	37	42,5	1,2	37,5	-	34	340	**14**	11	8	5,5	MHBS605100*J#A
10	28	37	42,5	1,2	37,5	10,2	34	340	**15,5**	12	9	4,9	MHBS605100*JSDA
10	28	37	42,5	See lugs drawing			34	340	**17**	13	9,5	4,7	MHBS605100*§§A
12	30	45	42,5	1,2	37,5	-	34	408	**14**	13,5	10	5	MHBS605120*J#
12	30	45	42,5	1,2	37,5	20,3	34	408	**18,5**	14,5	10,5	4,4	MHBS605120*JSD
12	30	45	42,5	See lugs drawing			34	408	**20**	15,5	11,5	4,2	MHBS605120*§§
20	30	45	57,5	1,2	52,5	-	23	460	**14**	13,5	10	4,8	MHBS065200*R#
20	30	45	57,5	1,2	52,5	20,3	23	460	**19**	15	11	4,2	MHBS065200*RSD
20	30	45	57,5	See lugs drawing			23	460	**21**	17	12,5	4	MHBS605200*§§
22	35	50	57,5	1,2	52,5	-	23	506	**14**	14	11	4,6	MHBS605220*R#
22	35	50	57,5	1,2	52,5	20,3	23	506	**21**	17	12	4	MHBS605220*RSD
22	35	50	57,5	See lugs drawing			23	506	**23**	18,5	13	3,8	MHBS605220*§§
25	35	50	57,5	1,2	52,5	-	23	575	**14**	14	12	4,4	MHBS605250*R#
25	35	50	57,5	1,2	52,5	20,3	23	575	**22**	17,5	12,5	3,8	MHBS605250*RSD
25	35	50	57,5	See lugs drawing			23	575	**24**	19,5	14	3,6	MHBS605250*§§
33	38	57,5	57,5	1,2	52,5	20,3	23	759	**24,5**	19,5	14,5	3,3	MHBS605330*RSD
33	38	57,5	57,5	1,2	52,5	10,2	23	759	**25,5**	20,5	15	3,1	MHBS605330*RST
33	38	57,5	57,5	See lugs drawing			23	759	**27**	21,5	16	3,1	MHBS605330*§§
35	38	57,5	57,5	1,2	52,5	20,3	23	805	**25**	20	14,5	3,2	MHBS605350*RSD
35	38	57,5	57,5	1,2	52,5	10,2	23	805	**26**	20,5	15	3	MHBS605350*RST

[1] at f=10kHz÷60kHz for P=27.5mm, at f=10kHz÷45kHz for P=37.5mm, at f=10kHz÷30kHz for P=52.5mm; Irms rating for Δt/Ta (Ta= T ambient)= +15°C typical is the absolute max. Irms applicable (ratings limited by terminals type and execution); **for lug terminals execution, the power dissipation capability is calculated considering all the box walls and sealing surface able to dissipate and not in contact with any surface**; Irms values are referred to max. tolerance on rated Capacitance=±10%, for wider C tolerances ESR variation from typical data and related different power dissipation must be taken in consideration

[2] typical value at f=10kHz÷60kHz for P=27.5mm, at f=10kHz÷45kHz for P=37.5mm, at f=10kHz÷30kHz for P=52.5mm; for operating frequency out of the range, ESR variation from typical data and related different power dissipation must be taken in consideration

[3] change the "*" symbol with the desired capacitance tolerance code (±5%=J; ±10%=K); change the "#" symbol with S for 5mm and L for 25mm leads length terminals; change the "§§" characters with the desired lug style code

[4] Upon request only; [6] Not suitable for across the line applications

MHBS - *(Expanded range; new lugs)*

Metallized polypropylene film capacitor
MKP - Switching - High current - DC-Link - AC
2/4/6 x Wire or lug terminals - Small size

MHBS70…: Ur=1275Vdc; Urms= 440Vac [6]; Upkr= 1465Vdc; Upk= 1655Vdc
Max. admissible voltage at +70°C (case)= 1400Vdc, 460Vac, Upkr=1610Vdc, Upk=1820Vdc

Cap.	Dimension in mm						du/dt	Ipeak	Irms max. (A) for Δt/Ta [1]			ESR[2]	ICEL Code[3]
µF	B	H	L	d	P	P1	V/µs	(A)	**+15°C**	+10°C	+5°C	mΩ	
0,68	11	20	32	0,8	27,5	-	61	41,5	**4**	3	2,5	23	MHBS703680*H#
1	13	22	32	1,0	27,5	-	61	61	**5**	4	3	17,8	MHBS704100*H#
1,5	15	24,5	32	1,0	27,5	-	61	91,5	**6**	4,5	3,5	14	MHBS704150*H#
2	18	33	32	1,2	27,5	-	61	122	**8**	6,5	4,5	11,5	MHBS704200*H#
2,2	18	33	32	1,2	27,5	-	61	134,2	**8,5**	6,5	4,5	10,8	MHBS704220*H#
2,2	14	25	42,5	1,2	37,5	-	41	90,2	**6,5**	5	4	12,5	MHBS704220*J#
2,5	18	33	32	1,2	27,5	-	61	152,5	**9**	7	5	9,7	MHBS704250*H#
3	18	33	32	1,2	27,5	-	61	183	**9,5**	7,5	5,5	8,6	MHBS704300*H#
3	18	33	32	1,2	27,5	5,1	61	183	**10,5**	8,5	6	8	MHBS704300*HSD
3	17	28	42,5	1,2	37,5	-	41	123	**8**	6,5	5	10,1	MHBS704300*J#
3	17	28	42,5	See lugs drawing			41	123	**9,5**	7,5	5,5	9,3	MHBS704300*§§
3,3	22	37	32	1,2	27,5	-	61	201,3	**11**	8,5	6,5	8,1	MHBS704330*H#
3,3	22	37	32	1,2	27,5	10,2	61	201,3	**12**	9	6,5	7,5	MHBS704330*HSD
3,3	22	30	42,5	1,2	37,5	-	41	135,3	**9**	7,5	5,5	9,6	MHBS704330*J#
3,3	22	30	42,5	See lugs drawing			41	135,3	**10,5**	8,5	6	8,8	MHBS704330*§§
4	22	37	32	1,2	27,5	-	61	244	**12**	9,5	7	7,1	MHBS704400*H#
4	22	37	32	1,2	27,5	10,2	61	244	**13,5**	10,5	7,5	6,5	MHBS704400*H#
4	22	30	42,5	1,2	37,5	-	41	164	**10**	8	6	8,7	MHBS704400*J#
4	22	30	42,5	See lugs drawing			41	164	**11,5**	9	6,5	7,9	MHBS704400*§§
4,7	22	33,5	42,5	1,2	37,5	-	41	192,7	**10,5**	8,5	6	7,9	MHBS704470*J#
4,7	22	33,5	42,5	1,2	37,5	5,1	41	192,7	**11,5**	9	6,5	7,3	MHBS704470*JSD
4,7	22	33,5	42,5	See lugs drawing			41	192,7	**12,5**	10	7,5	7,1	MHBS704470*§§
5	22	33,5	42,5	1,2	37,5	-	41	205	**10,5**	8,5	6,5	7,7	MHBS704500*J#
5	22	33,5	42,5	1,2	37,5	5,1	41	205	**11,5**	9	6,5	7,1	MHBS704500*JSD
5	22	33,5	42,5	See lugs drawing			41	205	**12,5**	10	7,5	6,9	MHBS704500*§§
6,8	24	44	41,5	1,2	37,5	-	41	278,8	**13,5**	11	8	6,5	MHBS704680*J#
6,8	24	44	41,5	1,2	37,5	10,2	41	278,8	**14,5**	11,5	8,5	5,9	MHBS704680*JSD
6,8	24	44	41,5	See lugs drawing [4]			41	278,8	**16**	12,5	9,5	5,7	MHBS704680*§§
7,5	24	44	41,5	1,2	37,5	-	41	307,5	**14**	11,5	8,5	6,1	MHBS704750*J#
7,5	24	44	41,5	1,2	37,5	10,2	41	307,5	**16**	12,5	9	5,5	MHBS704750*JSD
7,5	24	44	41,5	See lugs drawing [4]			41	307,5	**17,5**	13,5	10	5,3	MHBS704750*§§
7,5	28	37	42,5	1,2	37,5	-	41	307,5	**13**	10,5	7,5	6,1	MHBS704750*J#A
7,5	28	37	42,5	1,2	37,5	10,2	41	307,5	**14,5**	11,5	8	5,5	MHBS704750*JSDA
7,5	28	37	42,5	See lugs drawing			41	307,5	**16**	12,5	9	5,3	MHBS704750*§§A
10	30	45	42,5	1,2	37,5	-	41	410	**14**	13	9,5	5,1	MHBS705100*J#
10	30	45	42,5	1,2	37,5	20,3	41	410	**18**	14	10,5	4,5	MHBS705100*JSD
10	30	45	42,5	See lugs drawing			41	410	**20**	15,5	11,5	4,3	MHBS705100*§§
12	30	45	57,5	1,2	52,5	-	28	336	**14**	12,5	9	6	MHBS705120*R#
12	30	45	57,5	1,2	52,5	20,3	28	336	**17**	13,5	9,5	5,4	MHBS705120*RSD
12	30	45	57,5	See lugs drawing			28	336	**18,5**	14,5	10	5,2	MHBS705120*§§
15	30	45	57,5	1,2	52,5	-	28	420	**14**	13	10	5,4	MHBS705150*R#
15	30	45	57,5	1,2	52,5	20,3	28	420	**18**	14,5	10,5	4,8	MHBS705150*RSD
15	30	45	57,5	See lugs drawing			28	420	**19,5**	15,5	11,5	4,6	MHBS705150*§§
20	35	50	57,5	1,2	52,5	-	28	560	**14**	14	11,5	4,6	MHBS705200*R#
20	35	50	57,5	1,2	52,5	20,3	28	560	**21,5**	17,5	12	4	MHBS705200*RSD
20	35	50	57,5	See lugs drawing			28	560	**23,5**	19	13,5	3,8	MHBS705200*§§
25	38	57,5	57,5	1,2	52,5	20,3	28	700	**23**	19	13,5	3,6	MHBS705250*RSD
25	38	57,5	57,5	1,2	52,5	10,2	28	700	**24**	19,5	14	3,4	MHBS705250*RST
25	38	57,5	57,5	See lugs drawing			28	700	**26**	21	15	3,4	MHBS705250*§§

[1] at f=10kHz÷60kHz for P=27.5mm, at f=10kHz÷45kHz for P=37.5mm, at f=10kHz÷30kHz for P=52.5mm; Irms rating for Δt/Ta (Ta= T ambient)= +15°C typical is the absolute max. Irms applicable (ratings limited by terminals type and execution); **for lug terminals execution, the power dissipation capability is calculated considering all the box walls and sealing surface able to dissipate and not in contact with any surface**; Irms values are referred to max. tolerance on rated Capacitance=±10%, for wider C tolerances ESR variation from typical data and related different power dissipation must be taken in consideration

[2] typical value at f=10kHz÷60kHz for P=27.5mm, at f=10kHz÷45kHz for P=37.5mm, at f=10kHz÷30kHz for P=52.5mm; for operating frequency out of the range, ESR variation from typical data and related different power dissipation must be taken in consideration

[3] change the "*" symbol with the desired capacitance tolerance code (±5%=J; ±10%=K); change the "#" symbol with S for 5mm and L for 25mm leads length terminals; change the "§§" characters with the desired lug style code

[4] Upon request only; [6] Not suitable for across the line applications

Warning: this specification must be completed with the data given in the "General technical information" chapter